

**PERMIT APPLICATION NUMBER: NRS#03.329**

**APPLICANT:** First Utility District  
P.O. Box 22580  
Knoxville, Tennessee 37993  
(865) 966-9741

**LOCATION:** The proposed project is near the community of Martel and impacts Muddy Creek, Loudon County, Tennessee.

**WATERSHED DESCRIPTION:** Muddy Creek is located in the Upper Tennessee River Watershed (including Ft. Loudoun and Watts Bar Reservoirs). The depth of the stream varies, averages 1-2 feet. The substrate of the stream is muddy/sandy/silty. The streamside vegetation is moderate to heavy grass. The width of the stream varies, averages from 12 –15 feet. The immediate area of the project is predominately urban/ suburban.

**DESCRIPTION:** The purpose of this project is to extend First Utility District's sanitary sewer service further into the community. During the construction phase of this project, the sewer line will cross Muddy Creek six (6) times, and unnamed tributaries to Muddy Creek two (2) times. In conjunction with the stream crossings the sewer line will cross approximately fourteen (14) wet weather conveyances, several of which are in close proximity of driveways and county roads. The construction will include the following:

Line "A" – 8,249 linear feet of 15" & 8" polyvinyl chloride (PVC) gravity sewer

Line "B" – 6,233 linear feet of 10" PVC gravity sewer

Line "C" – 8,797 linear feet of 12" ductile iron pipe (DIP) force main

Line "D" – 10,096 linear feet of 12" DIP force main

Line "E" – 2,783 linear feet of 3" PVC low-pressure force main

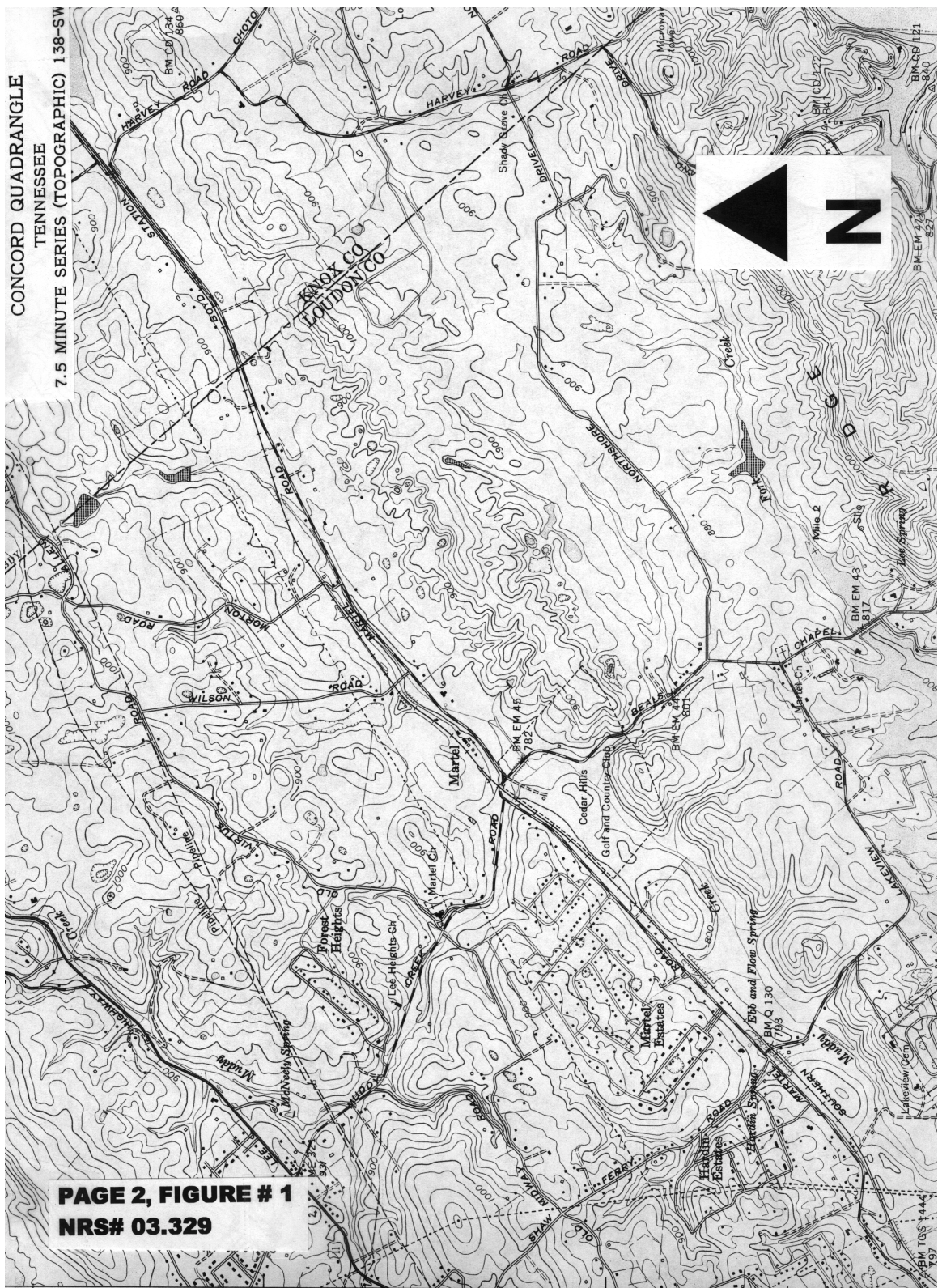
Lakeview Drive pump station

Beals Chapel Road pump station.

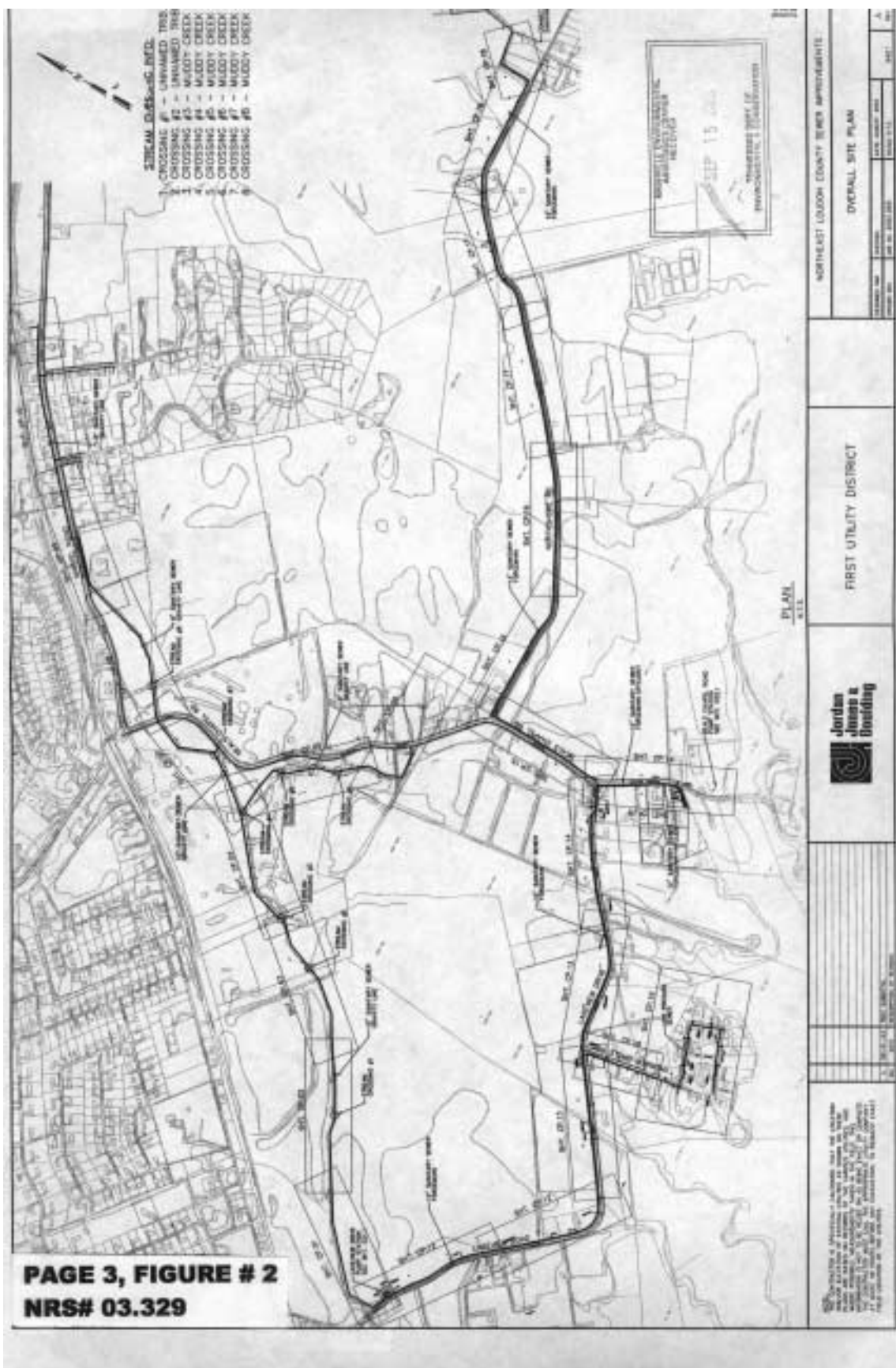
The stream crossings and the wet weather conveyance crossings will range in length from 20-30 feet and 3-4 feet in width.

**PERMIT COORDINATOR:** Dorsey Horne, STATE OF TENNESSEE, Department of Environment and Conservation, Division of Water Pollution Control, 7<sup>th</sup> Floor, L & C Annex, 401 Church Street, Nashville, Tennessee 37243-1534

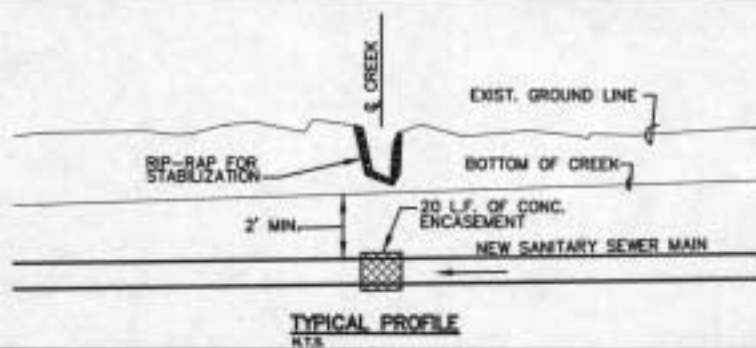
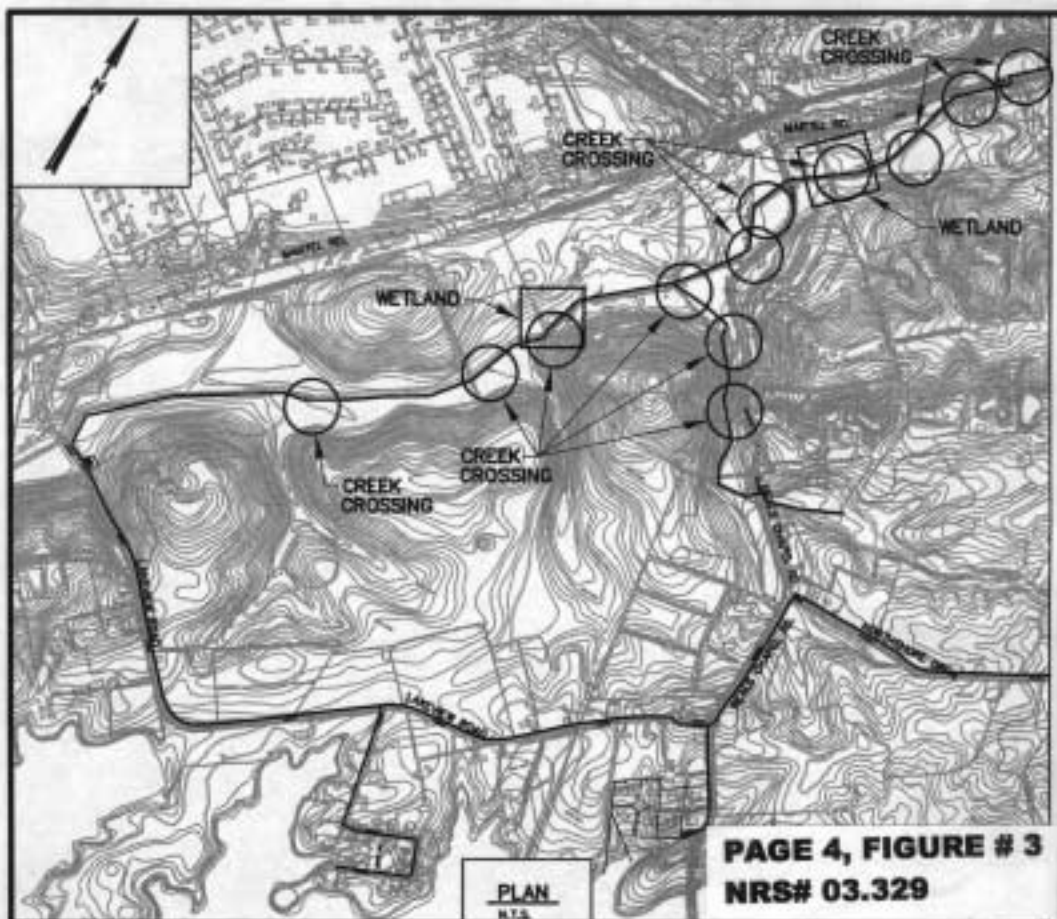
**USGS QUAD: CONCORD, TENNESSEE 138-SW**







**PAGE 3, FIGURE # 2**  
**NRS# 03.329**



SANITARY SEWER CREEK CROSSING LOCATIONS AND  
TYPICAL PROFILE FOR  
NORTHEAST LOUDON COUNTY SEWER IMPROVEMENTS

PROJECT NO.: 02092068  
JULY 2003  
SCALE: N.T.S.

FILE NO. 2003-00971  
SKETCH NO: SK1